Transforming Process Data Into Information
PI Integrator for Business Analytics

Presented by Rodrigo Quintero
Operations Model & Planning Manager
Company overview

Business
CEMEX is a global building materials company that provides high-quality products and reliable service to customers and communities in more than 50 countries throughout the world.

A global industry leader
• Annual sales of US$15.71 billion
• One of the leading cement manufacturers in the world
• World's leading supplier of ready-mix concrete, and one of the world's largest suppliers of aggregates
• One of the world's top traders of cement and clinker
Operations Performance Goals

- Improve Performance
- Provide Reliable Data to Decision Makers
- Reduce Costs
Journey to Operational Intelligence

- 70+ Sites
- Different Equipment
- Centralized Visibility
- Process Model
- ROW Rollout
- Expansion
- Challenges
- Actions
- Results
- Challenges
- Actions
- Results
- Challenges
- Actions
- Infrastructure Layer
- Data lacks context
- Standardize Data
- 4 + 1
- 1 + 4
- Different practices
- Standardization of Processes & Reporting
- Democratization of Data

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Enabling data access & analysis through PIIN4BA

**DATA EXTRACTION (70 Sites)**

**Before**
- Initial Effort: Enable connections + Extract Data: 1-2 months
- Monthly Effort: 1 month

**After**
- Initial Effort: Enable connections + Extract Data: 4 hours
- Monthly Effort: 5 minutes

**PREPARATION**
- Initial Effort: 1 week
- Monthly Effort: 3 days

**ANALYZE & REPORT**
- SQL Database
- Result: 1 Dashboard
- Result: Multiple Dashboards

PI Integrator for Business Analytics

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Making data extraction for Business Analytics simple

A typical data extraction initiative can take upwards of a month (or 744 hours) to complete for 70 sites.

The PI Integrator for Business Analytics reduces this down to 4 minutes.

Leveraging the...
Less time preparing data, more time analyzing data

It typically takes upwards of **3 days** to prepare data for business analytics tools.

The PI Integrator for Business Analytics reduces this down to **1 minute**.

Leveraging the...
Path to data democratization

- Reporting Tools
- Data Warehouse Layer
- ERP
- Cement Production Model
- Cement Plants Mexico & Americas 30+ sites

* USA & EMEA Plants are expected to use the Data Validation Module on 2016 (40+ sites)

AN INFORMATION HIGHWAY FROM THE PI SYSTEM TO BI

Integrator for Business Analytics
Hands-on Experience

Process
↓ Time spent prepping data
↑ Information into insights
↑ Continuous improvements

Tools
• Intuitive/user friendly tool
• Dynamic reports in any BI tool
• Out-of-the-box

People
↑ New conversations across the company
↓ Complexity to access information
↑ Time spent on value added activities
Available NOW!

Day 1  15:00
Big Data Analytics with the PI System

Day 1  16:00
PI Integrator for Business Analytics: Enterprise Reporting

Day 3  14:20
Big Data and Business Intelligence

Product Pod  Product Expo
Demo’s, Experts, T-Shirt

PI Integrator for Business Analytics Available NOW!
Thank You

• Danke
• Merci
• Gracias
• Obrigado
• ありがとう
• Děkuji
Lunch Locations!

Grand Ballroom & Chez Louis on the Mezzanine Level

Atrium – lobby level
Visit the Product & Partner Expo!

Tuesday
12:45 – 21:00
TONIGHT!

Wednesday
8:00 – 9:00
10:30 – 11:00
12:10 – 14:00
15:10 – 15:40

Thursday
8:00 – 9:00
11:30 – 13:00
15:30 – 17:00
Fun Photo Booth
Day 2 and Day 3 Overview

Day 2 – Industry Day
Industry Sessions
Product & Partner Expo
Zofin Palace – Offsite Event

Day 3 – TechCon
TechCon Sessions
Hands on Labs
General Session Closing
Offsite Event – Zofin Palace - Wednesday

Reception, Dinner and Dancing

**Buses Depart:** 18:00

**Where:** Side entrance – Lower Level

**Return:** 21:00 – 1:00
Please don’t forget to......

Complete the Online Survey for this session

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